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S1	1071	conroy.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:05
S2	387561	david.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:05
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S4	72	chrysanthakopoulos.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:05
S5	5422	henrik.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:05
S6	10444	nielsen.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:05
S7	97	S1 and S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:05

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S8	38	S3 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:05
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S10	5	S7 and S8 and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:07
S11	35807	microsoft.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:07
S13	709	S12 same (file or data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:08
S14	66	S12 same (url uri hyperlink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:08
S12	2274	soap with transfer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 06:10

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S16	4632	(709/206).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/28 06:11
S20	7	(("5,781,901") or ("6,505,236") or ("2003191800")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/28 06:38
S21	157	("5247661" "5276869" "5283887" "5418908").PN. OR ("5781901").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/28 07:22
S15	75	soap same ((file data) near2 (cop\$3 transfer\$4 move moves moving)) same (url uri link hyperlink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 08:44
S22	2	("20030191800").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/28 08:44
S23	55	header service body tag	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/06/28 10:53
S24	11627	(file media) with (transfer\$4 stream\$4) with service	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 10:54

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S25	6720	S24 same (network\$2 internet lan wan)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 10:54
S26	122	S25 same (tag soap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 10:55
S27	35	S26 and ("709".clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 10:55
S28	87	S26 not S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 11:36
S29	0	SoftArtisans.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 11:37
S30	0	Soft\$Artisans.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 11:37

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Relevance scale

1 [Session 14: middleware support for multimedia: A pluggable service-to-service](#)[communication mechanism for home multimedia networks](#)

Jin Nakazawa, Hideyuki Tokuda

December 2002 **Proceedings of the tenth ACM international conference on Multimedia MULTIMEDIA '02****Publisher:** ACM PressFull text available: [pdf\(436.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper proposes a pluggable service-to-service (S2S) communication mechanism in a middleware for home networks, called Virtual Networked Appliance (VNA) architecture. In the architecture, service description method and the plug-gable S2S communication mechanism are separated in an orthogonal way. Through the separation, VNA architecture solved problems of home networks on which users have to operate multiple heterogeneous middleware technologies simultaneously: middleware fragmentation prob ...

2 [&pgr;DTV: a client-based interactive DTV architecture](#)

Edward Y. Chang

[October 1999 Proceedings of the seventh ACM international conference on Multimedia \(Part 2\) MULTIMEDIA '99](#)**Publisher:** ACM PressFull text available: [pdf\(528.36 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**3** [Re-place-ing space: the roles of place and space in collaborative systems](#)

Steve Harrison, Paul Dourish

[November 1996 Proceedings of the 1996 ACM conference on Computer supported cooperative work CSCW '96](#)**Publisher:** ACM PressFull text available: [pdf\(1.33 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** MUDs, media space, metaphor, place, space, virtual reality

Experience: Development of an electronic commerce portal system using a specific software development process

Volker Gruhn, Martin Mocker, Lothar Schöpe

February 2002 **Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications CRPIT '02**

Publisher: Australian Computer Society, Inc.

Full text available:  [pdf\(979.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The development of electronic commerce (EC) systems is subject to different conditions than that of conventional software systems. Consequently, software development processes used for conventional systems to date need to be adapted to these new conditions. This includes the introduction of new activities to the development process and the removal of others. In addition, the roles involved in the development process, their tasks, qualifications and the software tools used by them, are different ...

Keywords: application integration, component based development, distributed architecture design, electronic commerce, software development process

5 Book preview: Book preview

 January 2002 **interactions**, Volume 9 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(262.79 KB\)](#)  [html\(13.13 KB\)](#) Additional Information: [full citation](#), [index terms](#)

6 Invited papers on the frontiers of software practice: Patterns, frameworks, and middleware: their synergistic relationships

Douglas C. Schmidt, Frank Buschmann

May 2003 **Proceedings of the 25th International Conference on Software Engineering ICSE '03**

Publisher: IEEE Computer Society

Full text available:  [pdf\(1.58 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The knowledge required to develop complex software has historically existed in programming folklore, the heads of experienced developers, or buried deep in the code. These locations are not ideal since the effort required to capture and evolve this knowledge is expensive, time-consuming, and error-prone. Many popular software modeling methods and tools address certain aspects of these problems by documenting how a system is designed. However, they only support limited portions of software ...

7 Current research directions in software engineering for parallel and distributed systems

 Innes Jelly, Ian Gorton

July 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(412.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

In March 1996, the First IFIP Workshop on Software Engineering for Parallel and Distributed Systems was held in Berlin, Germany. The two day workshop was co-sponsored by the German Computer Society GI (Gesellschaft fur Informatik), and organised in association with the International Software Engineering Conference--- ICSE 18. The aim of the workshop was to provide a forum for exchange of information and publication of the latest technological and theoretical advances in software engineering for

p ...

8 Interactive narrative: stepping into our own stories

◆ Chuck Clanton, Harry Marks, Janet Murray, Mary Flanagan, Francine Arble
April 1998 **CHI 98 conference summary on Human factors in computing systems CHI '98**

Publisher: ACM Press

Full text available:  pdf(251.34 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)



Keywords: digital storytelling, edutainment, entertainment, interactive narrative, story

9 Mobility and Wireless Access: Mobile streaming media CDN enabled by dynamic

◆ **SMIL**

Takeshi Yoshimura, Yoshifumi Yonemoto, Tomoyuki Ohya, Minoru Etoh, Susie Wee
May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

Publisher: ACM Press

Full text available:  pdf(623.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



In this paper, we present a mobile streaming media CDN (Content Delivery Network) architecture in which content segmentation, request routing, pre-fetch scheduling, and session handoff are controlled by SMIL (Synchronized Multimedia Integrated Language) modification. In this architecture, mobile clients simply follow modified SMIL files downloaded from a streaming portal server; these modifications enable multimedia content to be delivered to the mobile clients from the best surrogates in the CD ...

Keywords: CDN, SMIL, mobile network, streaming media

10 VOIP: A SIP-based conference control framework

◆ Petri Koskelainen, Henning Schulzrinne, Xiaotao Wu
May 2002 **Proceedings of the 12th international workshop on Network and operating systems support for digital audio and video NOSSDAV '02**

Publisher: ACM Press

Full text available:  pdf(165.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Conference control has been an area of intensive research over the years but widely accepted robust and scalable solutions and standards are still lacking. The main conference control components are conference management and floor (resource) control. We identify the requirements for conference control and propose a component-based scalable conference control framework employing the Session Initiation Protocol (SIP) and the Simple Object Access Protocol (SOAP). The framework assumes a single cont ...

Keywords: SIP, SOAP, conference control, floor control, multimedia conferencing, packet audio, packet video

11 MultiMedia: Context perception in video-based hypermedia spaces

◆ Teresa Chambel, Nuno Guimarães
June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia HYPERTEXT '02**

Publisher: ACM Press



Full text available:  pdf(648.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Multimedia hypertext has grown from the basic addition of dynamic media only at "leaf" nodes of the hypertext, to higher structured attempts to compose and integrate the different media. One of the core problems in this evolution has been, and still is, the construction and perception of context, making explicit which part of a presentation is relevant when media elements are integrated. The search for contextualized integration of video material with other sources of information has emerged fro ...

Keywords: HTIMEL, cognitive processes, design, education, entertainment, hypervideo, integration in context, interactive video and TV, link awareness

12 Fine grained access control for SOAP E-services 

 Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati
April 2001 **Proceedings of the 10th international conference on World Wide Web**
WWW '01

Publisher: ACM Press

Full text available:  pdf(258.34 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: SOAP, XML, access control, certificates, roles

13 Position statements: Multimedia middleware for the future home 

 Reinhard Baler, Christian Gran, Angela Scheller, Andreas Zisowsky
October 2001 **Proceedings of the 2001 international workshop on Multimedia**
middleware M3W

Publisher: ACM Press

Full text available:  pdf(730.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Applications which are intended for the home of the future require a common multimedia middleware which takes the particular requirements of residential environments into account. HAVI is a potential candidate for such a middleware. It aims to handle the communication between different kinds of consumer electronic devices. Based on IEEE 1394 it provides broadband connectivity which could be extended to other home appliances. This paper briefly introduces the HAVI specification and positions HAVI ...

Keywords: home networking, multimedia middleware

14 Conferencing: Ubiquitous computing using SIP 

 Stefan Berger, Henning Schulzrinne, Stylianos Sidiropoulos, Xiaotao Wu
June 2003 **Proceedings of the 13th international workshop on Network and operating**
systems support for digital audio and video NOSSDAV '03

Publisher: ACM Press

Full text available:  pdf(96.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the past decade, there have been numerous efforts in ubiquitous computing, making computational resources or communication more widely available. We believe that it is time to move to a global-scale ubiquitous computing system that is securable, administered by multiple independent administrators and integrates off-the-shelf hardware and software. We are developing such a system based on the Session Initiation Protocol (SIP), with Bluetooth devices for location sensing and Service Location Pr ...

Keywords: SIP, SLP, bluetooth, location based services, scalability, ubiquitous computing

15 Open hypermedia and the web: Offering open hypermedia services to the WWW: a step-by-step approach for developers

◆ Nikos Karousos, Ippokratis Pandis, Siegfried Reich, Manolis Tzgarakis
May 2003 **Proceedings of the 12th international conference on World Wide Web**

WWW '03

Publisher: ACM Press

Full text available:  [pdf\(86.12 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Hypermedia systems and more specifically open hypermedia systems (OHS) provide a rich set of implementations of different hypertext flavors such as navigational hypertext, spatial hypertext or taxonomic hypertext. Additionally, these systems offer component-based modular architectures and address interoperability between hypertext domains. Despite multiple efforts of integrating Web clients, a widespread adoption of OHS technology by Web developers has not taken place. In this paper it is argued ...

Keywords: babylon system, hypermedia services, open hypermedia systems, web services

16 Session 4: Web service applications: Towards securing XML Web services

◆ Ernesto Damiani, Sabrina De Capitani di Vimercati, Pierangela Samarati
November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**

Publisher: ACM Press

Full text available:  [pdf\(198.65 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Security is currently one of the main concerns about XML Web services. Several initiatives are currently ongoing aimed at achieving a standardized way for supporting integrity, confidentiality, and access control for XML Web services. This paper looks into these approaches and gives some hints for future research.

Keywords: SOAP, Web services, access control

17 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid
May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(558.34 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

18 [A principled design for scalable internet visual communications with rich media, interactivity, and structured archives](#) 

Ron Baecker

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research CASCON '03**

Publisher: IBM Press

Full text available:  pdf(1.44 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In contrast to video conferencing, webcasting supports scaleable Internet visual communications, yet it is typically viewed as an ephemeral one-way broadcast medium. We present a principled design for interactive webcasts that are accessible both in real-time and retrospectively. We derive system architecture and functionality from project goals, results from the video communications literature, and observations of prototype implementations in real webcasts. The ePresence system is scalable, int ...

19 [Going wireless, enabling an adaptive and extensible environment](#) 

Theo G. Kanter

February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  pdf(483.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses limitations in existing and projected solutions for delivering applications to mobile users (e.g., in 3G) in an increasingly diverse heterogeneous wireless infrastructure in combination with the on-going deregulation of mobile communication and with an increasing number of more narrowly defined roles of parties participating in the delivery of applications to mobile users. Furthermore, for future service growth, users need to be the center of communication via applications t ...

Keywords: agents, context, scalability, service, wireless

20 [Production and maintenance environments for interactive audio-visual stories](#) 

 Frank Nack, Craig Lindley

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia MULTIMEDIA '00**

Publisher: ACM Press

Full text available:  pdf(392.02 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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Relevance scale

1 Mobility and Wireless Access: Mobile streaming media CDN enabled by dynamic SMIL
Takeshi Yoshimura, Yoshifumi Yonemoto, Tomoyuki Ohya, Minoru Etoh, Susie Wee
May 2002 **Proceedings of the 11th international conference on World Wide Web**
WWW '02
Publisher: ACM Press

In this paper, we present a mobile streaming media CDN (Content Delivery Network) architecture in which content segmentation, request routing, pre-fetch scheduling, and session handoff are controlled by SMIL (Synchronized Multimedia Integrated Language) modification. In this architecture, mobile clients simply follow modified SMIL files downloaded from a streaming portal server; these modifications enable multimedia content to be delivered to the mobile clients from the best surrogates in the CD ...

Keywords: CDN, SMIL, mobile network, streaming media

2 [&pgr;DTV: a client-based interactive DTV architecture](#)
Edward Y. Chang
October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 2) MULTIMEDIA '99**
Publisher: ACM Press
Full text available:  pdf(528.36 KB) Additional Information: full citation, references, index terms

3 Monitoring data archives for grid environments
Jason Lee, Dan Gunter, Martin Stoufer, Brian Tierney
November 2002 Proceedings of the 2002 ACM/IEEE conference on Supercomputing
Supercomputing '02
Publisher: IEEE Computer Society Press
Full text available:  [pdf\(107.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Developers and users of high-performance distributed systems often observe performance problems such as unexpectedly low throughput or high latency. To determine the source

of these performance problems, detailed end-to-end monitoring data from applications, networks, operating systems, and hardware must be correlated across time and space. Researchers need to be able to view and compare this very detailed monitoring data from a variety of angles. To address this problem, we propose a relational ...

4 The Web Service Discovery Architecture

Wolfgang Hoschek

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing
Supercomputing '02**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(282.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we propose the Web Service Discovery Architecture (WSDA). At runtime, Grid applications can use this architecture to discover and adapt to remote services.

WSDA promotes an interoperable web service discovery layer by defining appropriate services, interfaces, operations and protocol bindings, based on industry standards. It is unified because it subsumes an array of disparate concepts, interfaces and protocols under a single semi-transparent umbrella. It is modular because it def ...

5 Applications: YouServ: a web-hosting and content sharing tool for the masses

 Roberto J. Bayardo Jr., Rakesh Agrawal, Daniel Gruhl, Amit Somani

May 2002 **Proceedings of the 11th international conference on World Wide Web
WWW '02**

Publisher: ACM Press

Full text available:  [pdf\(238.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

YouServ is a system that allows its users to pool existing desktop computing resources for *high availability* web hosting and file sharing. By exploiting standard web and internet protocols (e.g. HTTP and DNS), YouServ does not require those who access YouServ-published content to install special purpose software. Because it requires minimal server-side resources and administration, YouServ can be provided at a very low cost. We describe the design, implementation, and a successful intranet ...

Keywords: decentralized systems, p2p, peer-to-peer networks, web hosting

6 Supporting multiple consistency models within a mobility enabled file system using a component based framework

Simon Cuce, Arkady Zaslavsky

August 2003 **Mobile Networks and Applications**, Volume 8 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(258.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most existing Distributed File Systems (DFSs) implement a single consistency model to maintain one-copy equivalence. The functionality of that consistency model is based on a balance between environmental constraints and the targeted level of consistency. Such systems efficiently maintain consistency while the environmental capabilities remain constant, e.g., presuming uninterrupted connectivity. However, when these characteristics change, the inflexible nature of a single consistency model resu ...

Keywords: components, consistency control, distributed file system, middleware

7 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(351.86 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

8 Distinguished database profiles: Jim Gray speaks out



 Marianne Winslett

March 2003 **ACM SIGMOD Record**, Volume 32 Issue 1

Publisher: ACM Press

Full text available:  pdf(100.48 KB) Additional Information: [full citation](#), [citations](#)

9 Extending Java for high-level Web service construction



 Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Publisher: ACM Press

Full text available:  pdf(947.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

10 Features: Caching XML Web Services for Mobility



 May 2003 **Queue**, Volume 1 Issue 3

Publisher: ACM Press

Full text available:  pdf(311.20 KB) Additional Information: [full citation](#), [index terms](#)
 html(35.15 KB)

11 Improved query performance with variant indexes



 Patrick O'Neil, Dallan Quass

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.54 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The read-mostly environment of data warehousing makes it possible to use more complex indexes to speed up queries than in situations where concurrent updates are present. The current paper presents a short review of current indexing technology, including row-set representation by Bitmaps, and then introduces two approaches we call Bit-Sliced indexing and Projection indexing. A Projection index materializes all values of a column in RID order, and a Bit-Sliced index essentially takes an orth ...

12 Invited papers on the frontiers of software practice: Patterns, frameworks, and middleware: their synergistic relationships



Douglas C. Schmidt, Frank Buschmann

May 2003 **Proceedings of the 25th International Conference on Software Engineering ICSE '03**

Publisher: IEEE Computer Society

Full text available: [pdf\(1.58 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
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The knowledge required to develop complex software has historically existed in programming folklore, the heads of experienced developers, or buried deep in the code. These locations are not ideal since the effort required to capture and evolve this knowledge is expensive, time-consuming, and error-prone. Many popular software modeling methods and tools address certain aspects of these problems by documenting *how* a system is designed. However, they only support limited portions of software ...

13 Vinci: a service-oriented architecture for rapid development of web applications



Rakesh Agrawal, Roberto J. Bayardo, Daniel Gruhl, Spiros Papadimitriou

April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**

Publisher: ACM Press

Full text available: [pdf\(472.82 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Dynamic Networks: Caching web services in mobile ad-hoc networks: opportunities and challenges



Roy Friedman

October 2002 **Proceedings of the second ACM international workshop on Principles of mobile computing POMC '02**

Publisher: ACM Press

Full text available: [pdf\(134.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper proposes to define a caching service for Web Services in mobile wireless ad-hoc networks. The paper discusses many of the issues that need to be tackled in order to realize such a service, and proposes some solutions, some of which are based on previous experience with distributed object caching.

Keywords: caching, distributed systems, web services, wireless ad-hoc networks

15 Industrial sessions: middle-tier caching: Web caching for database applications with Oracle Web Cache



Jesse Anton, Lawrence Jacobs, Xiang Liu, Jordan Parker, Zheng Zeng, Tie Zhong

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  pdf(601.17 KB)

[terms](#)

We discuss several important issues specific to Web caching for content dynamically generated from database applications. We present the techniques employed by Oracle Web Cache to address these issues. They include: content disambiguation based on information in addition to the URL, transparent session management, partial-page caching for personalization, and broad-scope invalidation with performance assurance heuristics.

Keywords: caching, consistency, disambiguation, dynamic content, fragment, heuristics, invalidation, partial-page caching, performance, personalization, session, template

16 At the Forge: Introducing SOAP 

Reuven M. Lerner

March 2001 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  html(25.12 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

17 Articles: The Deliberate Revolution 

 Mike Burner

March 2003 **Queue**, Volume 1 Issue 1

Publisher: ACM Press

Full text available:  pdf(326.81 KB)  html(64.11 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)

18 DOS protection: Using graphic turing tests to counter automated DDoS attacks 

against web servers

 William G. Morein, Angelos Stavrou, Debra L. Cook, Angelos D. Keromytis, Vishal Misra, Dan Rubenstein

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security CCS '03**

Publisher: ACM Press

Full text available:  pdf(256.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present WebSOS, a novel overlay-based architecture that provides guaranteed access to a web server that is targeted by a denial of service (DoS) attack. Our approach exploits two key characteristics of the web environment: its design around a human-centric interface, and the extensibility inherent in many browsers through downloadable "applets." We guarantee access to a web server for a large number of *previously unknown* users, without requiring pre-existing trust relationships between ...

Keywords: Java, graphic turing tests, web proxies

19 Modeling a bulk manufacturing system using Extend 

 Andrew J. Siprelle, David J. Parsons

December 1995 **Proceedings of the 27th conference on Winter simulation WSC '95**

Publisher: ACM Press, IEEE Computer Society

Full text available:  pdf(451.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While simulation is readily used for traditional "pieces/parts" manufacturing problems, it is

also highly effective in solving problems in the world of bulk (dry) product or fluid manufacture. The nature of bulk or fluid manufacturing problems calls for a unique simulation architecture which is adaptable to many different applications. This paper shows how the simulation package Extend by Imagine That, Inc. of San Jose CA can be used to address such problems. A model of a soap manufacturing oper ...

20 The Proteus multiprotocol message library



Kenneth Chiu, Madhusudhan Govindaraju, Dennis Gannon

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing
Supercomputing '02**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(128.51 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Grid systems span manifold organizations and application domains. Because this diverse environment inevitably engenders multiple protocols, interoperability mechanisms are crucial to seamless, pervasive access. This paper presents the design, rationale, and implementation of the Proteus multiprotocol library for integrating multiple message protocols, such as SOAP and JMS, within one system. Proteus decouples application code from protocol code at run-time, allowing clients to incorporate separa ...

Keywords: SOAP, component, grid, middleware, multiprotocol

Results 1 - 20 of 131

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